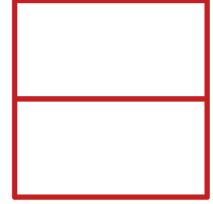## Model (1)

**Science**

1-When Sodium reacts with chlorine, the formula of the resulted compound is --------

A-NaF              B-NaCl              C- $Na_2O$              D-NaI

2- The device which used in the electrical analysis of water is ----------------

A-Ammeter          B-Voltmeter          C- Hoffman Voltmeter          D-Aneroid

3- The element which is lie in the third period and the fifth group, the number of electrons in its ion is -------

A-7              B-15              C- 18              D -20

4-The Ozone layer lies in --------------

A-Thermosphere          B-Stratosphere          C-Troposphere          D-Mesosphere

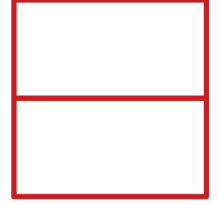5-There are complete fossils preserved inside ----------

A-Amonites              B-Amber              C- Igneous rocks              D -Ice

6- From extinct animals in ancient period...........................

A-Dinosaurs              B-Panda              C-Rhinoceros              D-Ice bird
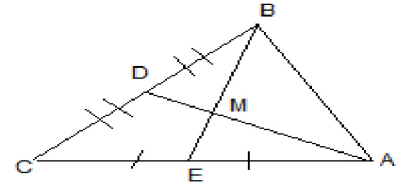
## Maths

1) If Δ ABC is right angled at B , AC = 20 cm ,then the length of the median drawn

   from vertex B = ........cm                ( 20  ,  10  ,  5 ,  2.5 )

2) In the opposite figure :

M is the point of intersection of the medians of the triangle ABC ,

 AM = 10 cm , then MD = ....cm



                    ( 1  ,  2  , 3 , 5 )

3) An Isosceles triangle whose vertex angle of measure $100^0$ , then the measure of one of its base

   angles is ........$^0$                ( 20 ,  40 ,  50 ,  60 )

4) In ΔABC , If  $m(\angle A) = 75^0$ , and $m(\angle B) = 55^0$ ,then BC ......AC

                    ( >  ,  <  ,  =  ,  Twice  )

5) The cube whose volume is 27 $cm^3$ , then its total area equals ......... $cm^2$

                    ( 9 ,  27 ,  36 ,  54 )

6) If X = [1,3] ,and Y = ]2 , 5 ] , then X∩Y = .........

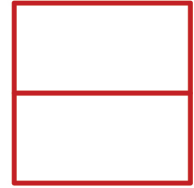                ( [1 , 2[   ,  ]1 , 5 [  ,  [3 , 5] , ] 2 , 3 ]  )

7) If the point ( 3 , 1 ) satisfies the relation X+Y=K , then K = .......

                    ( 2 , 4 , 6 , 7 )

8 ) The mean of the values :  9 , 7 , 5 , 9  and 10  is ............

                    ( 9 ,  7.5  ,  7  ,  8 )

## Model (2)

**Science**

1-Each Alkali metal lies in  the ---------- of each period
A- start                B- middle                C- end                            D- bottom

2-If the volume of the collected gas at the cathode in the electrical analysis of water is 10 $cm^3$, so the volume of the gas at the anode ,-------$cm^3$
A-5                        B-10                C-20                D-30

3-A trivalent non-metal element lies  in the third period, the number of electrons of  its outermost energy …………….
A-5                        b- 8                        c-9                            D-18

4- The…………….. layer has pressure equals  90 millibar.
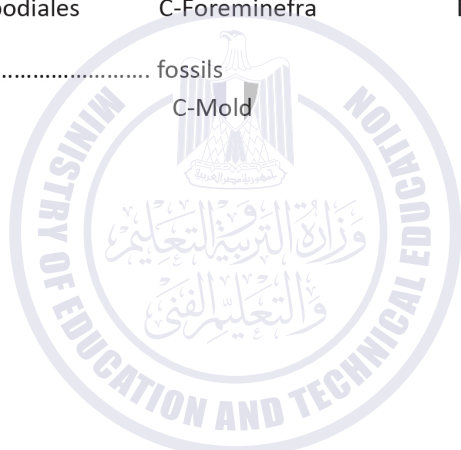A-Troposphere                        B-Stratosphere        C-Mesosphere        D-Ionosphere

5-From the examples of microfossils ………………………..
A-Mammoth                B-poly podiales        C-Foreminefra                        D-Nummulite

6-Dinasour eggs are considered……………………… fossils
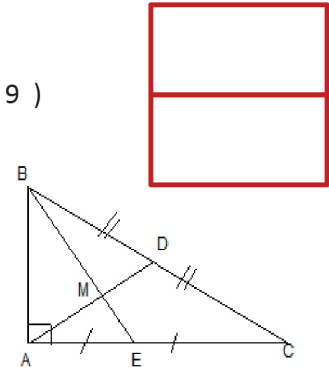A-Petrified                B-Cast                        C-Mold                            D-Trace

**Maths**

1) The mean of the values : 7 , 8 , 9 , 10  and 6  is ........        ( 6 , 7 , 8 , 9 )

2) In the opposite figure:

M is the intersection point of the medians of triangle ABC ,

BC = 24 cm , then DM = .......cm

( 2 , 4 , 6 , 8 )

3) ABC is right angled triangle at B , AC = 10 cm , $m(\angle C) = 60^0$, then BC = ......cm .

( 2 , 4 , 5 , 6 )

4) The triangle whose measure of two angles are $55^0$ and $70^0$ is ........

( isosceles ,  equilateral ,  scalene ,  right )

5) The lengths which can be sides of a triangle is ............

( {1 ,1 , 2 } , { 1 ,1 ,3 } , { 1 ,2 ,2 } , { 2 , 2 , 5 })

6) The cube whose edge of length is  3 cm ,its volume = ........$cm^3$

( 9 , 27 , 81, 54 )

7) If X = [ 1,3 [ ,  Y = ] 2 , 5 [ , then X ∩ Y = ........

( [ 1 , 5 [   ,  ] 2 ,3 [   ,  [ 3 , 5 [  ,  [ 1 , 2 ] )

8) If X ( 4 , 2 ) and y ( 4 , 6 ) , then the slope of $\overleftrightarrow{XY}$ = ........

( 2 ,   0  ,  -2 ,   undefined )

## Model (3)

**Science**
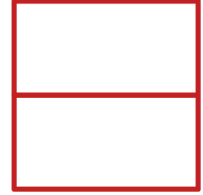
1. The noble gases are located in ……………………… group.
   a) 7A          b) 8          c) 2B          d) O

2. Each of the following elements react with the diluted acids **except** ……………………
   a) Zinc          b) Iron          c) Carbon          d) Magnesium

3. Meteors are formed in …………………..
   a) Mesosphere          b) Ionosphere          c) Exosphere          d) Stratosphere

4. From the endangered creatures is …………………..
   a) Dinosaurs          b) Quagga          c) Dodo birds          d) Panda

5. The liquid Nitrogen is used in ………………reactor
   a) saving cornea                    b) cooling of nuclear reaction
   c) manufacturing of foam boxes          d) food saving

6. Fossils are found in ……………………… rocks.
   a) metamorphic          b) sedimentary          c) volcanic          d) igneous

**Maths**

1) The mean of the values : 5 , 2 , 7 , 12  and  9 is ........

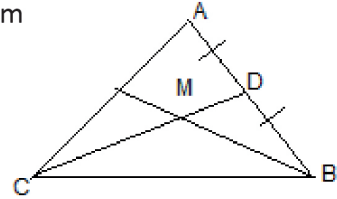( 2  ,  5  ,  7  ,  13 )
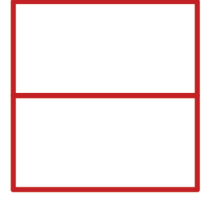
2) <u>In the opposite figure</u> :

M is the point of intersection of the medians of triangle ABC , CD = 12 cm

then  CM = ........ cm

( 4 ,  5  ,  10  ,  8 )



3) ABC is a triangle in which AB = 3 cm , and AC = 7 cm , then BC $\in$ ........

(  [ 4 , 10 ]   ,  ] 4 , 10 ] , [ 4 , 10 [  ,  ] 4 , 10 [ )

4) In triangle ABC : $m(\angle B) = 90^0$  $m(\angle C) = 30^0$ and AC = 10 cm ,then AB = ......cm

( 2.5 ,  5  ,  10 ,  15 )

5) In  $\Delta XYZ$   If $m(\angle X) = 50^0$ , and $m(\angle Y) = 60^0$ , then XY ......YZ

( >  ,  <  ,  =  , twice  )

6) The volume of sphere whose diameter length is 6 cm = ....... $cm^3$

( 288 ,  12 $\pi$  ,  36 $\pi$  ,  288 $\pi$ )

7) [ 2 , 5 ] − {2} = ........

( ] 2 , 5 [  ,  ] 2 , 5 ]  , { 5 },  { 7 } )

8 ) If the straight line passes through the two points ( 2 , k ) and ( 4 , 7 )  is parallel to the x-axis ,

then k = .......

( 5  ,  4  ,  7 , 1 )